Tarik Eshaq

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WORK EXPERIENCE

Mozilla   **Toronto, ON**
Senior Software Engineer, Firefox Sync   *March 2023 - Current*

- **Promoted to Senior Software Engineer** at Mozilla in **less than 2 years**, reflecting exceptional performance and a rapid advancement in responsibility.
- Identified and resolved a **50% drop** in Firefox Account registration for Firefox Android by tracking missing data then proposing and implementing changes to the new user onboarding flow.
- Reimplemented browser history in **Firefox iOS**, significantly improving URL search bar performance (**10x improvement in the 999th percentile**, **4x improvement in the 99th percentile**).
- Actively maintain and contribute to **UniFFI**, a popular **Rust binding generator** (1300+ GitHub stars) used by companies such as Block and NordVPN.
- Took ownership of **Firefox's Send Tab feature**, improving its reliability and increasing the success rate by over **10%**.
- Managed the Rust binaries release pipeline for Firefox for iOS and Focus for iOS, achieving a **50% reduction in binary size** for Focus for iOS.

Mozilla   **Toronto, ON**
Software Engineer, Firefox Sync & Experimentation   *June 2021 - March 2023*

- Wrote cross-platform native components that were delivered to Firefox Desktop, iOS and Android to create measurable impact to **hundreds of millions of Firefox users worldwide**.
- Built many features for Firefox's experimentation platform that **increased Firefox's A/B experiment throughput by over 10x**.
- Delivered a tool that allowed Firefox Desktop Engineers to communicate with Rust from JavaScript. **Presented the tool to 800+ people on stage** and received positive feedback.

Mozilla   **Vancouver, BC**
Software Engineering Intern, Firefox Sync   *May 2020 - August 2020*

- Abstracted away how Android and iOS applications interact with Rust libraries by working on an open-source low-level library for cross-platform development. **The abstraction was used by three+ teams at Mozilla**.
- Prototyped the client for an experimentation platform which was **deployed to millions of users' devices**.

SAP   **Vancouver, BC**
Software Engineering Intern   *Sept 2018 - May 2019*

- Created and unit tested a novel widget using React, Redux and TypeScript that was proven scalable and **selected as a standard for implementing other widgets** across the product in multiple SAP offices.
- Implemented the authentication for a feature that **improved the page load time by 5x**, utilizing Web Workers, Service Worker, IndexedDB and JavaScript ES6.
- **Represented over 180 interns** at SAP as an Intern Committee member, planning social events.

EDUCATION

University of British Columbia   **Vancouver, BC**
Computer Science and Business, GPA: 4.0   *Graduated With Honors*

- **Dean's Honor List for all terms**.

SKILLS

- Programming Languages: Rust, TypeScript, Go, JavaScript, Swift, Kotlin, C++, Python, Java.
- Other technologies: Git & GitHub, PostgreSQL, MongoDB, Node.JS, Docker, Jira, React, Redux, gRPC, REST, WebAssembly, GitHub Actions, CircleCI

PROJECTS

- Contributed to a multitude of open source projects including **The TypeScript Language**, **Deno** and **Mattermost**.
- Led various presentations, eg: Open Source Development, Introduction to Linux, and DDIA Summaries.